

CLAIMS

1. A brushless motor having a stator, a rotor and a circuit board for controlling rotation of said rotor, wherein the stator has iron cores and coils wound around the iron cores, further comprising switching elements mounted to said circuit board for turning on and off electric power to be supplied to the coils of said stator, and a heat-radiating member fixed to said iron cores of said stator.

2. The brushless motor according to claim 1, wherein two bearings are supported rotatably at two ends of a shaft of said rotor, and one of the bearings is supported by said heat-radiating member.

3. The brushless motor according to one of claims 1 and 2, wherein said switching elements are contacted to said heat-radiating member.

4. The brushless motor according to one of claims 1 to 3, wherein said iron cores are screwed to said heat-radiating member.

5. The brushless motor according to claim 4, wherein each of said iron cores has a bump protruding from an outside plane thereof, and the bump has a hole for screwing said one of said iron cores to said heat-radiating member.

6. The brushless motor according to one of claims 1 to 5, further comprising a biasing member which pushes said

switching elements simultaneously to the heat-radiating member.

7. The brushless motor according to one of claims 1 to 6,
further comprising a cooling fan for cooling said switching
5 elements and said coils, said cooling fan being fixed to a
shaft of said rotor.